JAPANESE MEDICAL MATERIAL

290365

CARVASON AMPOULES, 20%

(Sodium para-sulforanid-phenylamine-methanesulforate)

Medical No. 220

15 May 1946

ARMA MEDICAL ANALYSIS SECTION
MEDICAL APO 500
SEP 23 1946

Reprocuced by U S Army Technical Intelligence Center, Tokyo

Carvason Ampoules, 20%

(Sodium para-sulfonamid-phenylamine-methanesulfonate)

SOURCE: Tokyo, Japan.

IMPORTANCE: Not previously reported. A highly water soluble sulfonamide compound. No identical product is listed in standard available American references.

<u>DESCRIPTION</u>: A clear, colorless and odorless solution of 0.2 cc. in an amber colored ampoule. Ten of these ampoules are packaged in a black cardboard container.

SUMMARY OF GENERAL INFORMATION: Carvason ampoules contain a 20% solution of sodium para-sulfonamid-phenylamine-methanesulfonate,

A translation of the literature accompanying the product is part of this report and describes its chemistry, toxicology, indications, dosage, cautions, packaging and manufacturer.

Comment is inadvisable until an exhaustive search of the literature is made in the U.S. of America. In view of the intensive research on sulfonamide compounds during recent years, it is highly probable that this compound has already been thoroughly investigated.

PHOTOGRAPHS: Figure 1 - Closed package of Carvason

Figure 2 - Open package of Carvason

Figure 3 - Literature of Carvason





カルバゾン注射液 110%

CARVASON AMPOULS 20%

超级的自身 3 4

化學的集成並に性状

機色類明注影液なり。其の化學的構造式は H2N・O2S-「一一一-NH・CH2・SO3Na Kレア分解點 韓氏二五〇度カルパソン注影液は P-sulfonamidphenylaminomethansulfonsagres Natrium の二〇%水溶液Kレンで送定はる

以上の白色結晶形勢来にして水に極めて易落性なり。

待望せらると事久しきに互れり。作用を生じたるは難けられぬ事實でありたり。此故臨床界に於ては誤歸なきスルフオンアミドの小溶性の田親をなるを以て往射劑として使用するにはグリコールの如き有機性溶媒を用ひたる窩め薬効の減退近に禁患す可含副法が飛躍的に進步されたるは周知の事宜なりしが初々スルフオンアミド剛は非紅日的に按與するには水に難容性暴に、Domagk は上が連鎖状並に葡萄釈政菌性醫疾患にスルフォンアミド側の有効なるを發表して以來化學療

力の職をは勿論、治療的作用極めて迅速にして何馨の副作用を生ぜざるは本劑の持徴なり。 財験に比べて遙かに無毒性にして且効果卓越なる優秀水溶性注射液なり。即ち本劑は二〇%水溶液にして其較菌力ルパッンは多年間研究に研究を重ねたる結果、特殊なる墨理と理論に基いて得られたる製劑にして従来の注

藥理作用述に臨床効果

を示し、全身所見同じく異欲なきものなり。 ず、剩へ投異數過後と雖も尿中蛋白又は病的物質を體めず、又健康なる對用動物の體重と同樣正常なる熱意物面和軟なくして又血性の所見に少しも變化を起きず。「つて長時日に宜り湿癒法科するも何等の生理的障害を來さ〇、〇五姑を投異するも存み何舉雜症狀にて忍咎され、家兔に於ては靜賦生射とて體重當近一〇姑與ふるも違る障害、血腦の變化又其他副作用を認めず。即ちマウスに於ては皮下注射にて體重當瓦〇、一起、鬱熙内には母五ミノフェエルスルフォンアミドよりも治療量を遙かに超えたる比較的大量を靜脈內に注射するも何等の心臟機能毒性散驗の結果に使れば力ルバンとは純粹水溶性スルフォンアミド剛なるを以て有額性溶媒を使用せるバラア

關節炎等に對し本剤の治療及驗助の効力に卓蛇せるものあり。 産褥熱其他連鎖狀又は葡萄般球菌、大腸菌の離感染及び混合感染、葡萄狀又は連鎖状球菌性創傷感染、蜂窩施炎感染に動してもよく奏効す。簡々の臨床實驗の結果に微すれば連鎖狀球菌の局所並に全身感染即ち敗血症、丹幸力ルパブンはマウス又家鬼の連鎖狀球菌性敗血症に對し著明なる治療作用を示し、又葡萄狀球菌並に肺炎菌性

適 廰 往

ス性多致性關節炎、急慢性關節炎、骨髓炎、炎衝性尿路疾患、腎盂炎、膀胱炎、肺炎等。 ンクローゼ、アンギーナ、中耳炎、化膿症胸膜炎、心臓炎、心内膜炎、菌腺炎、茵精膿竭、扁桃腺炎、ロイマチ即ち丹華、敗血症、產婦熟、敗血脹毒症、蜂窩織<u>株、重症化躁性利</u>傷、化脓性脐巴腺炎、カルブンケル、フル連鎖秩球菌、葡萄状球菌、淋菌、肺炎菌、大肠菌等に基因する路疾患に潜効あり。

用法並に用量

減して数日間繼續注射し以て再發を防止すべし。 限療法パラミデールを併用せば効果の脊頭を得らるべく又症狀治失後と誰も治療を直ちに中止せず用最を漸次差には皮下又は筋肉内に注射する症状に應じては一日二回に直り注射するも何幸闘作用を認めず尚力ルバゾンは内痛常一日一回二ー一〇姓を筋肉又は鬱脹内に正しく且徐々に注熱する静脈注射不能の場合、例へば小兒の場合

本品はロック氏液或はリングル氏液と同時に循用するも洞鵠することなく使用上極めて至便なり。

划 順

力には何等の影響なし。 連兆貯蔵すべし。 最温の鍵化等の高め第一結晶析用せる場合は微温器にて溶解して使用せられるべく。 然に背観したる場合も効

本類は水銀、銀化合物との併用を緊急とする

数法發寶元 柳醇嬰藥工業株式會社

Translation of the Accompanying Literature

CARVASON AMPOUTES 20%

Chemical medical therapy for streptococcic and staphlococcic infection.

CHEMISTRY: Carvason injection is a 20% solution of parasulfonamid-phenylamine-methanesulfonate sodium. It is a stable colorless injection. Its formula is NH₂SO₂ - C₆H₄ - NHCH₂SO₃Na. The melting point of this white crystalline powder is above 250°C and it is readily soluble in water. Since Dr. Domagk announced his findings on sulfamine (T.N. sulfamilamide), great strides have been made in this field, but sulfamilamide is not suited for oral use because of its insolubility.

The use of glucose in preparing this chemical for injection is condemned because of the great decrease in efficiency. Carvason is manufactured by a special process, perfected after many years of research. The 20% solution is more efficient and has a higher sterilizing power than other similar preparations. It does not have any secondary reactions.

TOXICOLOGY: Doses, larger than those therapeutically required, do not disturb the heart or blood pressure, showing the non-toxicity of this drug. O.l cc of this solution was injected into the vein of a mouse with no untoward reactions. Then 10 cc per day, for many days, was injected into the vein of this same mouse without "change in its body". Examination of the body of the mouse a few works after the injections showed the absence of thrombi. Normal gain in weight was recorded during treatment of the mouse. Carvason is extremely active against streptococcic septicemia of mice and rabbits. Similar action against the streptococcus and the pneumococcus have been noted.

INDICATIONS: Septicemia, carbuncles, puerperal fever, furuncles, phlegmon, suppurative cuts, suppurative lymphadenitis otitis media, suppurative pleurisy, pericarditis, endocarditis, gingivitis, alveblitis, tonsillitis, rheumatic polyarthritis, acute or chronic arthritis, osteomyelitis, urethritis, pyelitis, cystitis and pneumonis when caused by streptoccocci, staphylococci, gonococci, pneumocccci, or the coli bacillus.

DOSAGE: Slowly inject between 2 and 10 cc once or twice a day, intramuscularly or intravenously. When intravenous injection is impossible, as in a child, use the intramuscular or subcutaneous route. Two injections per day in a seriously ill patient will not result in untoward effects.

If sulfanilamide is administered concurrently by the eral route, better results will be obtained. To prevent recurrence of disease, continue the treatments in gradually decreasing dosage even after the symptoms subside. Locke's or Ringer's solution may be used as a solvent for Carvason. Turbidity will not result.

CAUTIONS: Crystallisation may occur in cool climates. If so. redissolve by the use of a tepid water bath. A yellow discoloration does not decrease the efficacy. Store in a dark place. Do not use Carvason with any mercurials.

PACKAGING: 10 Ampoules, 20%, 10 cc each

50 Ampoules, 20%, 10 cc each

10 Ampoules, 20%, 2 cc each 50 Ampoules, 20%, 2 cc each

MANUFACTURED AND SOLD BY:

Ryukan Pharmaceutical Industry Co. Ltd. Susa, Keijin Line.